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DEPARTMENT OF THE AIR FORCE  
Headquarters United States Air Force  
Washington 25, D. C.

AFCIN

10 September 1957

MEMORANDUM FOR DEPUTY DIRECTOR, OFFICE OF SPECIAL INTERNATIONAL AFFAIRS  
OSD, ATTN: COLONEL F. J. CHESAREK

SUBJECT: Soviet Electronic Aids to Air Navigation

1. Reference your I-15,561/7, the following information on Soviet Electronic Aids to Air Navigation is submitted:
  - a. A total of nine GCA installations have been identified on Soviet military airfields. Four of these are in East Germany, one in Poland and four in the USSR. We estimate that one GCA per air division will be installed by 1959.
  - b. Only one ILS installation has been identified at a military airfield. This is at Gross Dolln in East Germany.
  - c. ILS equipment is installed in the Bison and Badger Soviet bomber aircraft.
  - d. There are no indications that ILS equipment is installed in Soviet fighter aircraft.
  - e. Although it is estimated that new developments are underway in radio navigation equipment, the radio homing beacon is still the Soviets' basic navigation and landing aid.
  - f. The Soviets have been using a four channel VHF set for air-ground communications. However, these sets have only been available for about four years. A new 10 channel set is just now becoming available.
  - g. During the last 10 years the Soviet electronics industry has expanded rapidly; however, limitations still exist on their ability to develop and produce new equipment. Electron tube production at the present time appears to be able to meet current demand but cannot supply a greatly accelerated expansion of the electronics industry or build up a backlog to meet emergency requirements. There are indications that the Soviets are having difficulties with new production techniques, particularly minaturization of standard equipment.

FOR THE CHIEF OF STAFF:

"Signed"

R. A. Breitweiser  
ROBERT A. BREITWEISER  
Brigadier General, USAF  
Director of Estimates

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